## Junior Master Gardenersm Level 1 Teacher/Leader Guide Correlations: Georgia Performance Standards 5th Grade

## Plant Growth and Development 5th 5th 5th 5th Grade Activity Grade Grade Grade **Social Studies** Science English LA Math 1. Hamburger Plant? - To become aware of dependence on plants as the originator of most food sources 2. Benefits Mobile - To be aware of the dependence all people have on plants 3. Know & Show Sombrero - To show an understanding of the benefits of plants to people 4. *Choo-Choo Song* - To associate a variety of plants with their food products by learning a song 5. *The Medicine Plant* - To recognize the medicinal properties of the aloe vera plant 1. Leaves & Seeds Sort Info Chart - To be able to S5I 1 classify leaves and seeds as monocots & dicots 1. *Plant Parts Rap* - To gain understanding of the main parts of a plant and role each performs 2. Touch & Tell - To use information learned about plant parts to identify plant materials by touch 3. *Plant Parts We Eat* - To identify the various plant parts that are used for food 4. **Seed Science** - To use the scientific method to determine the effect on plant growth of removing the cotyledons from seeds 5. *Flower Dissect* - To identify the different parts of a flower 1. P.L.A.N.T. Needs - To become familiar with plants' needs 2. What's Not the Same? - To become familiar with M5A1 variables and constants 3. *Plant People* - To show an understanding of plant needs through creative arts 4. Picture Yourself a Plant - To show an understanding of plant needs through creative arts 1. Coconut Float - To illustrate the different ways seeds are dispersed 2. **Plant Performance** - To develop an understanding ELA5W2 of plant needs through creative writing

3. <i>Topiary</i> - To create living, growing works of art			
4. <i>Power Seeds</i> - To observe the force seeds exhibit in the germination process			
1. <i>Oxygen Factory</i> - To illustrate the process of photosynthesis			
2. <i>Gas Gobblers</i> - To demonstrate the interdependence people and animals share with plants through the exchange of oxygen and carbon dioxide			
3. <i>Spinning Seeds</i> - To determine the effect of geotropism on plants			
Paper Pot - To create recyclable pots and propagate plants by seed			
2. <i>Gallon Greenhouse</i> - To show an understanding of the environment needed to propagate plants			
3. <i>Propagation Demonstration</i> - To demonstrate how to propagate plants by direct seeding, stem cuttings, leaf cuttings, root cuttings, division, and layering	S5L2		

## Soils and Water

John and Water				
Activity	5th Grade Science	5th Grade English LA	5th Grade Math	5th Grade Social Studies
1. <i>Touchy Feely</i> - To understand soil texture and the properties of different soil types and soil particles				
2. <i>Mud Pies</i> - To feel the difference in soil textures				
3. <i>Shake, Rattle, and Roll</i> - To identify amounts of soil particles that make up a soil's texture				
4. <i>Candy Aggregate</i> - To create an edible model illustrating that soil is made up of many different components	S5P1			
1. <i>Nutrient Variable</i> - To use scientific method to study the effects of fertilizer on plant growth				
2. <i>The Numbers on the Bag Song</i> - to gain an understanding of how nutrients in fertilizer help plants				
3. <i>Bumps Below</i> - To become familiar with plants that produce their own nitrogen				
1. <b>Building Bins &amp; Compost Sandwiches</b> - To build a composting bin for creating organic matter to amend soil				
2. <i>Composting Critter Page</i> - To identify organisms that are a part of the composting process.	S5L4			
3. <i>Compost Sandwich Composition</i> - To compose a paragraph to support the claim that it is important to				

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S5P2			
S5P2			
S5E1			
5th Grade Science	5th Grade English LA	5th Grade Math	5th Grade Social Studies
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3. <i>Weighing Wastes</i> - To measure amount of food wastes produced at a meal and work to reduce wastes for the future.				
4. <i>Let's Try Organic</i> - To implement organic gardening ideas into a garden setting.				
5. <i>Xeriscape</i> - To build a garden site using water conservation concepts.				
1. <i>Vermi-Composting</i> - To recycle food wastes with vermi-composting.				
2. <i>Super Mowing Machine</i> - To utilize creativity to invent a new mowing machine.				
3. <i>Grow Cards</i> - To recycle newspaper to create plantable greeting cards.				
4. <i>Know &amp; Show Recycling Sombrero</i> - To make wearable works of art showing materials that can be recycled.				
1. <i>Plant Pounding</i> - To transfer the likeness of plant parts to fabric.				
2. <i>Let's Dye It</i> - To color eggs or fabrics using dyes created from natural materials.				
3. <i>Nature Windows</i> - To create art using natural materials.				
4. <i>Garden Folk</i> - To build a scarecrow.				
5. <i>Nature Masks</i> - To create wearable art using natural materials.				
6. <i>Mother Nature's Children</i> - To create art using natural materials.				
Insects and Disease				
Activity	5th Grade Science	5th Grade English LA	5th Grade Math	5th Grade Social Studies
1. <i>Insect Predictions and Survey</i> - To predict insect characteristics and learn what all insects have in common.	S5L1			
2. <i>Insect Symmetry</i> - To learn and understand the concept of symmetry.				
3. <i>The Great Cover-Up!</i> - To learn and understand the concept of camouflage.				
4. <i>Designer Bugs</i> - To reinforce concepts learned about insects so far: their characteristics and the concepts of symmetry and camouflage: their characteristics and the concepts of symmetry and camouflage.				

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5. <i>Insect Riddles</i> - To reinforce basic concepts learned about insects so far, and to experiment with creative writing concepts by creating riddles.			
6. <i>Secret Smells Game</i> - To discover how insects communicate using pheromones.			
1. All in the Family: Insect Flash Cards - To learn that insects are organized in groups based on their characteristics. To learn the characteristics common to all insects and the characteristics specific to a few groups of insects, called orders.	S5L1		
2. <i>Ordering Insects</i> - To learn to sort insects based on similarities and differences, and make a basic insect key.	S5L1		
3. <i>Metamorphosis Bracelets and Belts</i> - To learn the stages of metamorphosis.			
4. <i>Morpho Puppets</i> - To learn the stages of complete metamorphosis, and teach them to a younger group.			
5. <i>JMG Web Activity: Journey North</i> - To gain familiarity with the Internet as a research tool.			
1. <i>Suck-A-Bug</i> - To make a simple aspirator and use it to collect and observe small insects.			
2. <i>It's a Small World</i> - To create Berlese funnel and use it to collect and observe insects living in the ground and soil.			
3. <i>Classroom Netting</i> - To make an insect net and use it to collect samples of insects by sweeping.			
4. <i>By Land or By Sea</i> - To compare and contrast the types of insects living in different habitats.			
5. <i>Classroom Ant Lion Farm</i> - To make a living collection of one type of insect and observe it closely as it builds its home.			
1. <i>Chew on This!</i> - To learn the four types of insect mouthparts and how they are specialized.			
2. <i>Schoolyard Survey</i> - To survey the schoolyard for signs of insect damage and to determine the types of insects that caused the damage.			
3. <i>Pollinator Puppet Show</i> - To learn the basic process of insect pollination.			
4. <i>The Bartering System</i> - To learn how plants and insects trade services, and to become familiar with the concept of energy exchange.			
5. <i>The Lone Bee</i> - To learn about solitary bees and create a bee home for them.			
6. <i>Designer Plants and Insects</i> - To combine previously learned concepts in creating insects and plants that are designed to work together.			

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## Landscape Horticulture

Activity	5th Grade Science	5th Grade English LA	5th Grade Math	5th Grade Social Studies
1. <i>Rooms</i> - To understand that areas within a space serve a special purpose and to define those areas.				
2. <i>People and Places</i> - To understand that different people use yard space differently.				
3. <i>Money Trees</i> - To understand that trees help to save energy and money.				
4. <i>Site Map</i> - To experience an initial step in the landscape design process.	S5CS5			
1. <i>Nature Wheels</i> - To build a color wheel from items found in nature and understand the relationship of one color to another.				
2. <i>Texture Collection</i> - To understand how the design element, "texture," is used to visually create interest in				

5th Grade Science	5th Grade English LA	5th Grade Math	5th Grade Social Studies
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S5CSb			
S5CS3			
5th Grade Science	5th Grade English LA	5th Grade Math	5th Grade Social Studies
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	S5CS3		S5CS3

2. <i>Paper Towel Gardening</i> - To create seed mats and				
transplant templates which will aid in organizing and				
laying out the garden.				
3. <i>Tender Transplants</i> - To understand the benefits and			ĺ	
practice techniques of transplanting.				
4. Weed Mats - To create a natural form of weed				
control.				
5. <b>Season Extenders</b> - To create an environment for				
plants.				
1. <i>Garden to the Table</i> - To determine harvest time of				
various garden vegetables.				
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2. <i>Beauty Contest</i> - To rank vegetables based on				
appearance.				
3. <b>Seed Bank</b> - To collect seeds from various fruits and	051.0			
vegetables.	S5L2			
1. <i>The Pyramid</i> - To use the Food Guide Pyramid to				
plan balanced meals.			<u> </u>	
2. <i>Food Safety</i> - To understand and practice food				
safety rules.				
3. Label Reader - To learn the importance of eating				
breakfast and how to make healthy food choices by				
using information found on food labels.				
using information round on rood labels.				
4. <i>Veggie Taste Test</i> - To evaluate vegetables based	S5CS8			
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Life Skills and Career Exploration				
Activity	5th Grade Science	5th Grade English LA	5th Grade Math	5th Grade Social Studies
<ol> <li>Who are You? - To understand the many roles we have in life and begin to understand that each member is a very unique and special person.</li> </ol>				
2. "What are you like?" - To help members examine their feelings, self-concepts, and values as they make choices.				
3. <i>Know Your JMG Friends</i> - Youth will recognize positives in their fellow students.				
4. <i>Good JMG'ers Wanted Posters</i> - Confirm each student's uniqueness by having them take their own fingerprints.				
5. <i>How would you feel?</i> - To understand that how you treat other people is very important.				
6. <i>Feeling Bee</i> - Youth will recognize that others have some of the same feelings they do in certain situations.				
1. <i>Where's My Fruit?</i> - To demonstrate the importance of sharing with your friends.				
2. <i>Let's Build It</i> - To explain the importance of cooperation in a group situation.				
3. <b>JMG Cooperation Roster</b> - To explain the importance of cooperation in a group situation.				
4. <i>Musical Chairs with a Twist</i> - To explain the importance of cooperation and sharing in a group.				
5. <i>Over and Under</i> - To illustrate group cooperation in a competitive situation.				
6. <i>Cooperation Countdown</i> - To demonstrate the importance of cooperation in a group.				
Garden Shed - To develop listening/communication skills. Helps with memory tasks.				
2. <i>Who's Who on Our Team?</i> - To identify and practice different modes and methods of communication.				
3. <i>Can You Follow Me?</i> - To identify and practice different methods of communication.				
4. <i>Plant a Seed</i> - To demonstrate the importance of clear verbal communication.				
1. <b>Goal Search</b> - To teach members what a goal is.				
2. <i>Right on Target</i> - To demonstrate the skills needed for goal setting and construct personal goals.				